BRUTALE 800

MV AGUSTA

User's manual

English Version

Dear Customer ,

We wish to thank you for your preference and congratulate you on purchasing your new Brutale 800.
MV Agusta, thanks to the passionate effort of its technicians, offers to its customers a motorcycle with a new aesthetic design combined with a refined framework: these are the elements which have distinguished every vehicle created by MV Agusta throughout its glorious history.
The result of this effort is an exclusive motorcycle with functional and aesthetic characteristics that place it above the finest motorcycles currently available on the market, making it an exclusive and sought-after item.
In fact, the technologies and solutions applied give to the Brutale 800 unique characteristics common to all the MV Agusta models, strenghtening a design phylosophy that involves continuous research, technological innovation and love for detail. This way, MV Agusta gives to all the bikers who freely live their passion the chance to possess a unique object, which surely represents a strong reference worldwide.

For further information, please feel free to contact the MV Agusta Customer Care Service.

Have a good time!

Giovanni Castiglioni
MV Agusta
Chairman

CONTENTS

CONTENTS

1.1. Purpose of the manual

This User's Manual contains the necessary information for a correct and safe use of the motorcycle.

The User's Manual is also supplied in electronic format (.pdf) on this digital support and it can be printed or viewed on any PC, equipped either with Windows or Mac operative system.

We recommend to carefully read the User's Manual before using your motorcycle, and to make sure that anyone who uses the motorcycle had previously made the same.

1.2. Symbols

Sections of text that are particularly important in terms of personal safety or possible damage to the motorcycle are marked with the following symbols:

Danger - Failure to observe these prescriptions, even in part, may pose a serious hazard to the driver's and other people's safety.

Caution - Failure to observe these prescriptions, even in part, may result in damage to the motorcycle.

The following symbols give an indication of who is supposed to perform the different adjustments and/or maintenance operations:

Information on operations that can be carried out by the user.

Information on operations that *must* be carried out *only* by authorized personnel.

The following symbols are used to provide further information:

The "  " symbol points out the requirement to use a tool or a special equipment in order to correctly perform the described operation.

§ **The " § " symbol refers the reader to the chapter identified by the number that follows.**

1.3. Contents of digital support

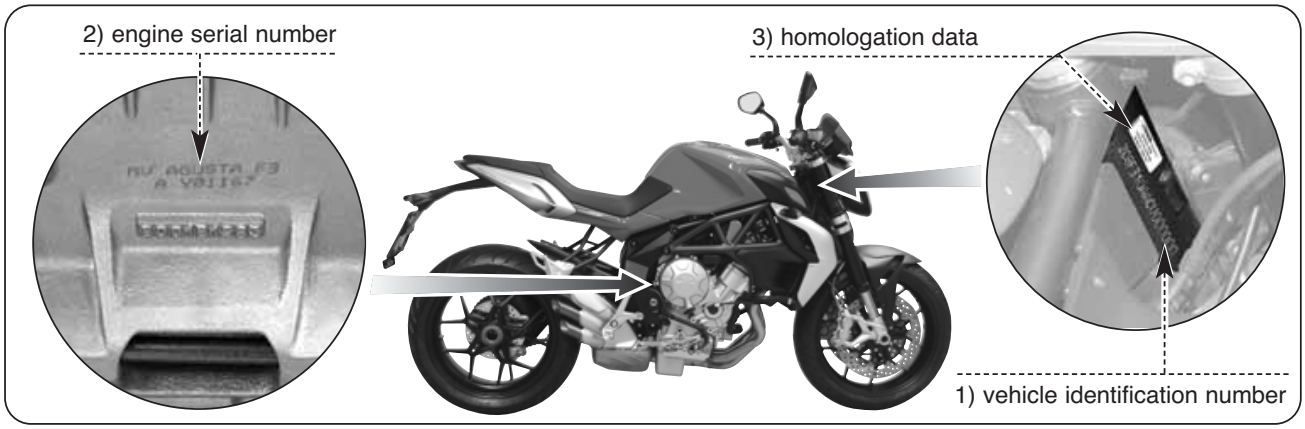
Inside this digital support you will find, besides the User's Manual, the Maintenance Manual, the World Dealer Guide and the Warranty Booklet.

When delivering the bike, your Dealer has also supplied the Warranty and Pre-Delivery Certificate.

We recommend to keep it together with the motorcycle documents and with the service coupons that are given at the moment of servicing the bike.

IMPORTANT
The copies of the Warranty and Pre-Delivery Certificate must be filled in by the Dealer. A copy of the certificate must be given to the Customer, a second copy must be kept by the Dealer and the third one must be sent to the importer.

The dealer must always fill in the recommended maintenance service coupons. They must be kept by both, the Customer and the Dealer.



1.4. Identification data

1) vehicle identification number
2) engine serial number
3) homologation data

▶ **Motorcycle identification**

The motorcycle is identified by the vehicle identification number. When placing orders for spare parts, in addition to this number, you may be required to provide the engine serial number, the color code and the key identification.

We recommend writing down the main numbers in the spaces provided below.

FRAME No.: _____

ENGINE No.: _____

▶ Motorcycle key identification

A key is supplied in duplicate for both the ignition and all the locks. Keep the duplicate in a safe place.

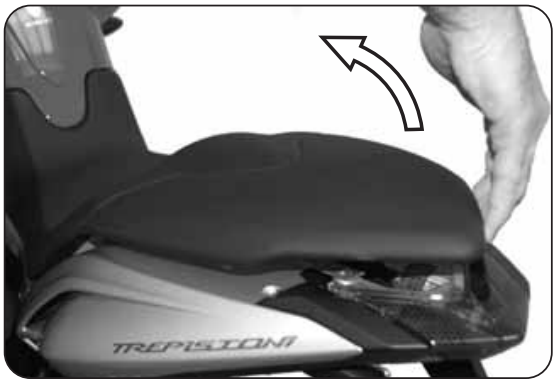
It is essential to provide the key identification number if you place an order for a spare motorcycle key. It is advised to note this number in the following space:

KEY Nr.: ----------

▶ Identification of motorcycle colour combination

The colour code must be mentioned when ordering body spares. It can be read on the right side of the fuel tank.

In order to get to the colour code label, it is necessary to remove the saddle.

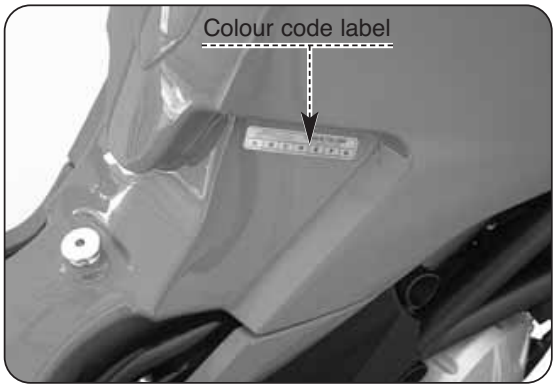


GB 1

After removing the saddle, it is possible to get to the colour code label. On this label you can read the motorcycle colour combination, which determines the painting of the bodywork parts.

We recommend writing down the colour code in the space provided below:

COLOUR CODE: ----------



2.1. ALLOWED USE OF THE VEHICLE

Your motorcycle has been strictly designed for use on road or highway route.

WARNING
Occasionally, it is possible to use your motorcycle on race track during non-competitive events.
In this case, however, in consequence of the higher stresses affecting the bike during this specific use, we recommend to have its conditions checked by an authorized MV Agusta Service Center before and after using it.
Any other use of the vehicle is prohibited and explicitly excluded.

You can find further information about the use of the vehicle in the section no. 4 of this Manual.

2.2. MAINTENANCE

In order to guarantee the maximum efficiency and reliability of the vehicle, it is necessary to perform the programmed maintenance operations reported in the Maintenance Manual.
MV Agusta recommends that all maintenance operations are performed only by skilled personnel from an authorized MV Agusta Service Center. Anyway, if you decide to have the maintenance operations performed by non-authorized workshops, you must ensure that they have the skills and the specific tools necessary to perform the above operations.

WARNING
The MV Agusta Warranty could not be valid if non-authorized workshops had performed operations on the bike in a different way from what is described on the Technical Circular Letters and on the related MV Agusta Workshop Manuals.

2.3. ACCESSORIES AND MODIFICATIONS

WARNING
MV Agusta prohibits to make any modification to its motorcycles.
This is necessary to preserve the safety of its Customers.

Anyway, it is possible to customize your motorcycle by consulting the extensive MV Agusta Accessory Catalogue.

WARNING
The installation of some of the above accessories could invalidate the bike homologation, and consequently make the bike not furtherly usable on public roads.

If you have doubts, we suggest to refer to your MV Agusta Dealer in order to choose the accessories which can better suit your needs.

2.4. VEHICLE LOAD

Your motorcycle is designed for use by the rider and it can also seat a passenger.
To use the vehicle in complete safety and in accordance with the Highway Code provisions, it is compulsory that the following maximum load conditions are never exceeded:

BRUTALE 800
Maximum technically permissible mass
364 kg
Maximum load mass
180 kg

The maximum technically permissible mass comes out from the sum of the following masses:

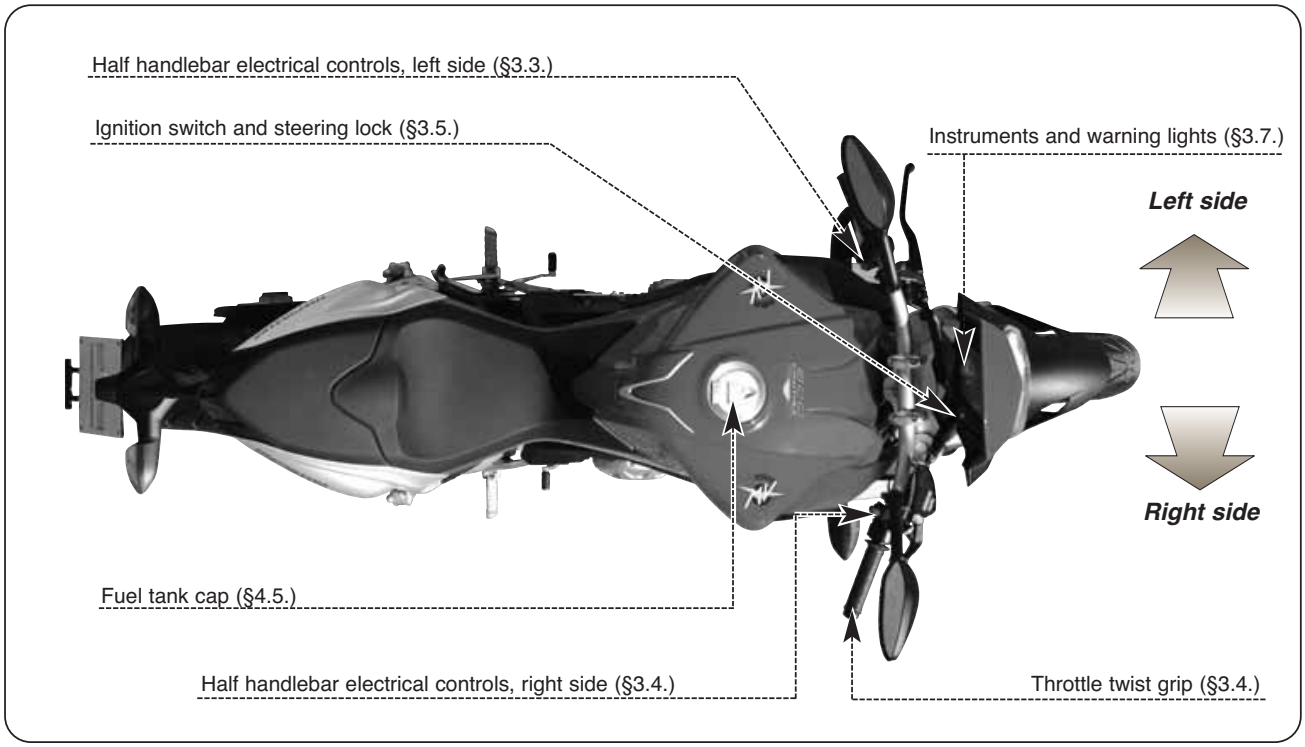
- mass of the motorcycle;
- mass of the driver;
- mass of the passenger;
- mass of the luggage and all the accessories.

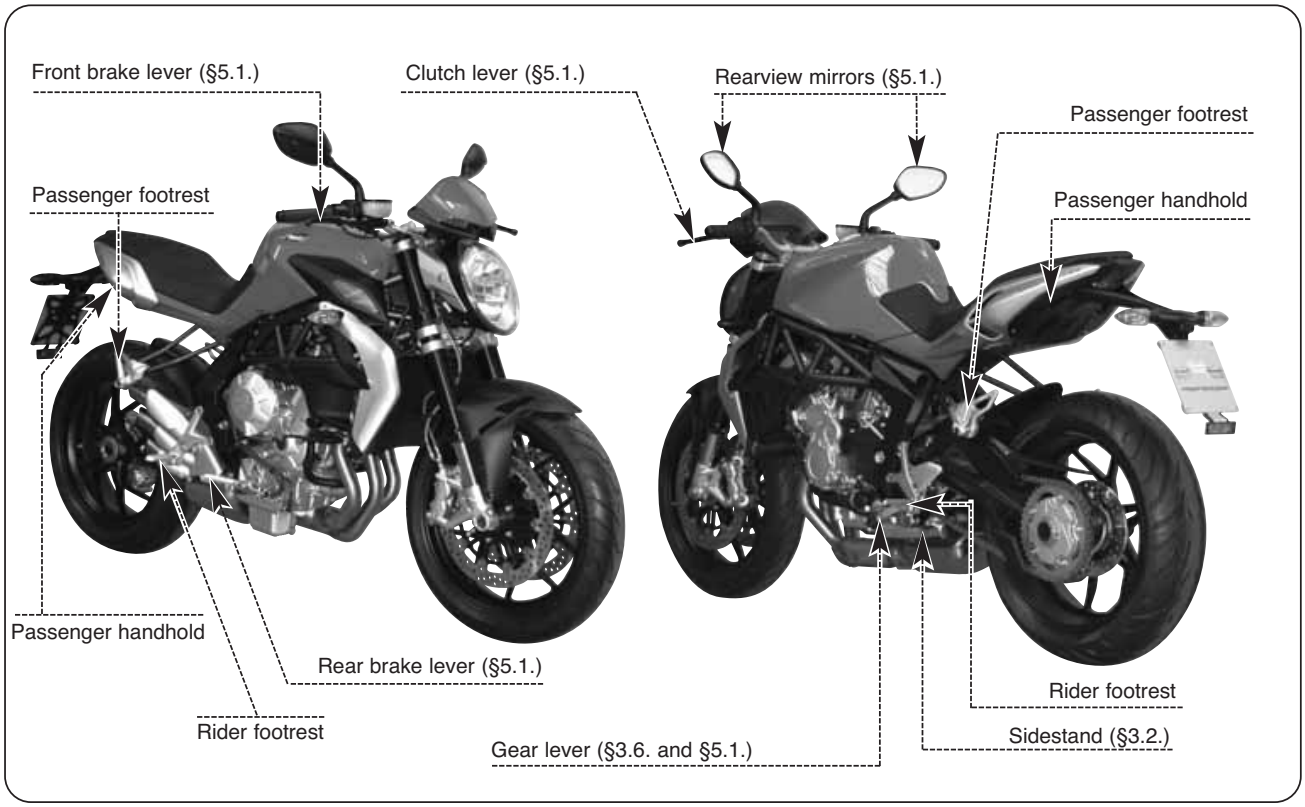
WARNING

Since the load can strongly affect handling, braking, performance and safety characteristics of your motorcycle, you should always keep in mind the following warnings.

• NEVER OVERLOAD YOUR MOTORCYCLE! Driving an overloaded motorcycle can cause damage to the tyres, loss of control of the vehicle and serious injury. Verify that the total weight (including the weight of the motorcycle, the driver, the passenger, the load and all the accessories) does not exceed the maximum value specified for your vehicle.

3.1. Location of controls and instruments

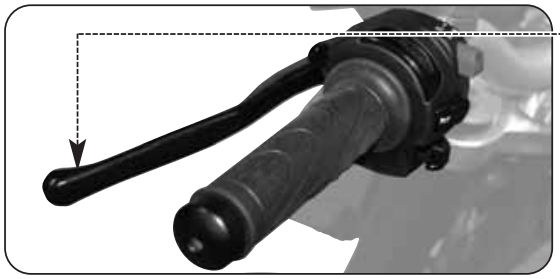



Front brake lever (§5.1.)
Clutch lever (§5.1.)
Rearview mirrors (§5.1.)
Passenger footrest
Passenger footrest
Passenger handhold
Passenger handhold
Rear brake lever (§5.1.)
Rider footrest
Rider footrest
Gear lever (§3.6. and §5.1.)
Sidestand (§3.2.)

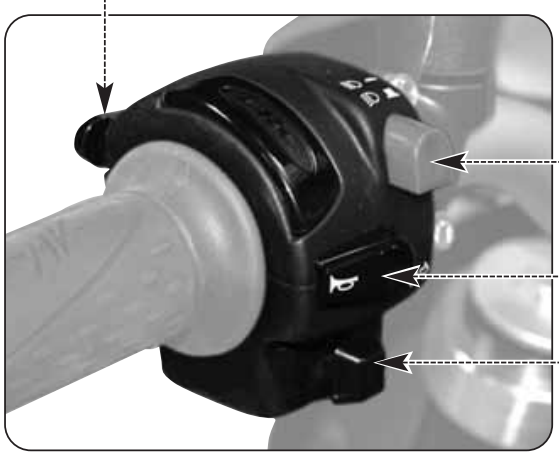
3.2. Sidestand

The sidestand is equipped with a safety switch that prevents the motorcycle from moving off while the stand is down.
If the rider attempts to engage the gears while the engine is running and the stand is down, the switch automatically turns off the engine by cutting the current supply.
If the motorcycle is parked (sidestand down) and the gears are engaged, the switch prevents the engine from being started, thereby avoiding the risk of accidentally toppling the vehicle.

3.3. Handlebar controls, left side



Clutch lever
Move towards/away from the handgrip to release/engage the clutch.



High beam flasher button
Press the button repeatedly.

Low/high beam button
Button not pressed in : low beam
Button pressed in : high beam

Horn button
Press to operate the warning horn.

Turn indicator switch
Shifting the lever to the left or right switches on the left or right turn indicators. The switch then returns to the central position. Press to turn off the indicators.

High beam flasher button
It is used to attract the attention of other road users in case of danger. When the high beam is on, the function is inactive.

Low/high beam button
Under normal conditions, the low beam is on. The high beam can be switched on by pressing the button when allowed by the traffic and road conditions.

Turn indicator switch
It is used to show the rider's intention to change direction or lane.

⚠ **WARNING**
Failure to switch the turn indicators on or off at the right time may cause an accident in that the other road users may draw incorrect conclusions about the direction of motion of the vehicle. Always switch on the indicators before turning or changing lanes. Then be sure to switch off the indicators after completing the operation.

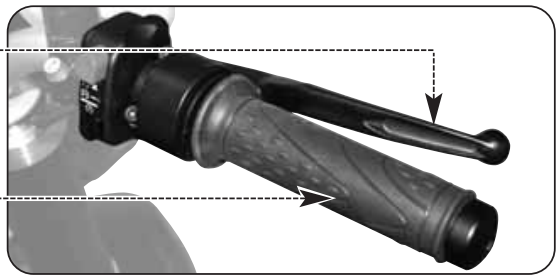
Horn button
It is used to attract the attention of other road users in case of danger.

Clutch lever
It engages/disengages the clutch through a hydraulically controlled device.

3.4. Handlebar controls, right side

Front brake lever
Pull to the lever to apply the front brake.

Throttle twist grip
Rotate counterclockwise to increase engine speed.



Engine stop switch
Stops the engine and prevents it from being restarted.

Engine start button
Starts the engine. To be released as soon as the engine starts. When the engine is running, pressing the button selects the display functions.

Engine stop switch
It is used to switch off the engine in an emergency. The ignition circuit is disabled, preventing the engine from being restarted. To be able to restart the engine, return the switch to its original position.

NOTE Under normal conditions, do not use this switch to shut off the engine.

Engine start button
It is used to start the engine and, when the engine is running, to select the different functions of the display installed on the instrument panel.

CAUTION
To avoid damaging the electrical equipment, be sure not to hold down the button for longer than 5 consecutive seconds. If, after some attempts, the engine does not start, refer to the chapter "TROUBLESHOOTING" in the "Maintenance Manual".

Throttle twist grip
It controls the fuel-air mixture supplied to the engine, which regulates engine speed. To increase engine speed, rotate the hand grip from its idle position counterclockwise.

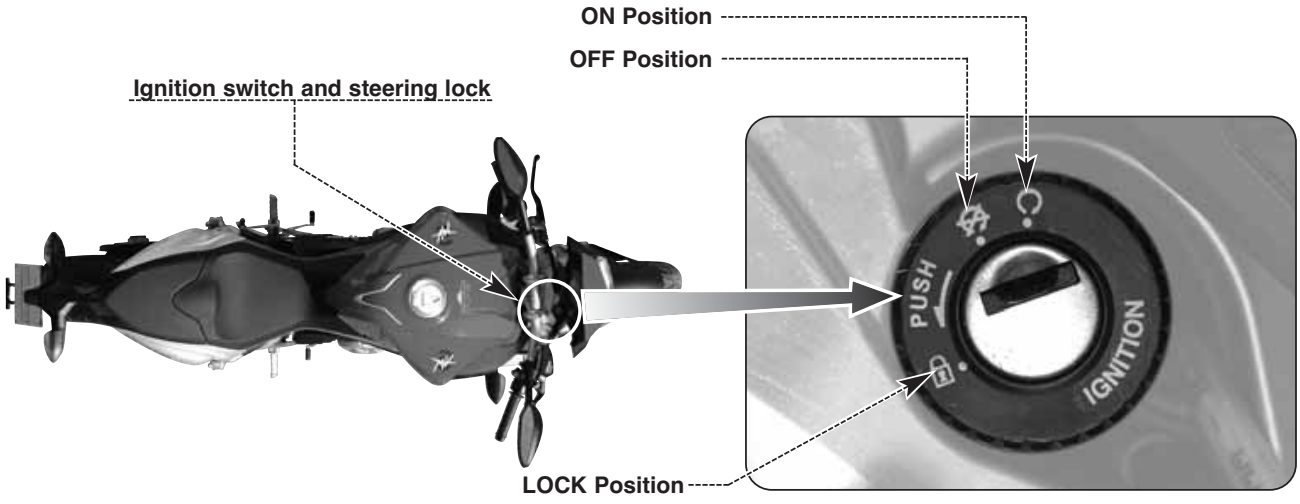
WARNING
In the event that your bike has dropped or has been involved in an accident, bring the vehicle to an authorized MV Agusta service center to check the operation of the throttle grip before resuming the march.

Front brake lever
It controls a hydraulic circuit that operates the front wheel braking system.

3.5. Ignition switch and steering lock

WARNING
Do not attach a ring or any other object to the ignition key as they may hinder the steering action.

WARNING
Never attempt to change the switch functions while riding, as you may lose control of the vehicle.



The ignition switch enables and disables the electrical circuit and the steering lock. The four positions of the switch are described below.

OFF position

All electrical circuits are deactivated. The key can be removed.

ON position

All electrical circuits are activated. The instruments and warning lights perform the self-diagnostic cycle. The engine can be started. The key cannot be removed.

CAUTION: Do not leave the key on the ON position for a long time when the engine is not running, in order to avoid damage to the electrical parts of the motorcycle

LOCK position

Turn the handlebar to the left. Press the key in gently while rotating it to the LOCK position.
All electrical circuits are deactivated and the steering is locked. The key can be removed.

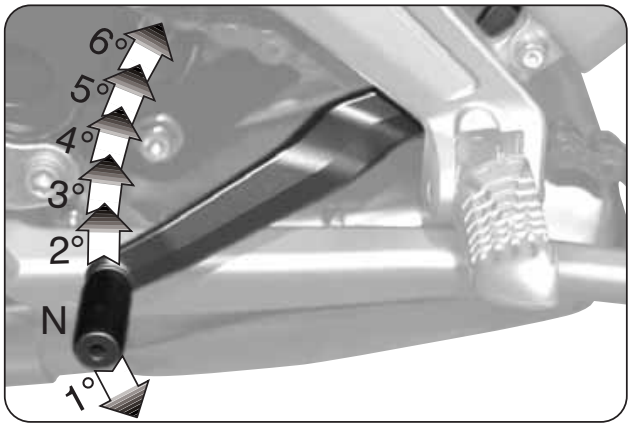
3.6. Gear lever

The **N** (neutral) position is indicated by the warning light on the instrument panel.
To change into first gear, push the lever down.
To change into second gear, lift the lever up. Lifting the lever up repeatedly engages all the other gears in succession up to the sixth speed.

❑ **"Quick Shift" function ***

Some Brutale models are equipped with a "Quick Shift" gear change system; this device enables you to upshift without pulling the clutch or changing the throttle control angle. This way, it is possible to change into upper gears by keeping a constant acceleration and reducing shifting time to a minimum. The "Quick Shift" system is not available when you change gear with the clutch lever pressed or at a speed lower than 30 km/h, nor when shifting into lower gears.

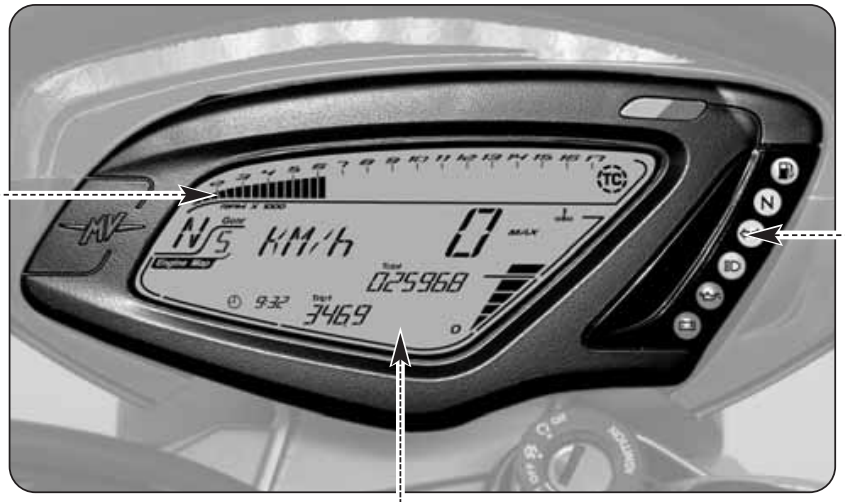
(*): This function is present only on certain models; available in aftermarket on all models



WARNING: When you are riding the vehicle with the engine revving high in a low gear, changing gear without operating the clutch lever can cause abrupt reactions which can compromise the stability of the vehicle. MV Agusta recommends to operate the clutch lever in these circumstances, especially when the engine rpm is close to the rpm-limiter intervention speed.

3.7. Instruments and warning lights

The instruments and warning lights are activated by turning the ignition switch to the ON position. After a preliminary check (approx. 7 seconds) the displayed information reflects the current general condition of the motorcycle.



3.7.1. Warning lights

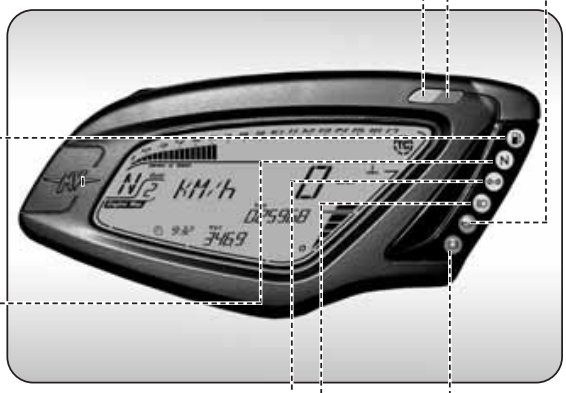
RPM limiter indicators (orange/red)
They switch on before the limiter intervention, at a number of turns dependent on the ratio of the inserted gear. The limiter intervenes at 13000 rpm.

Reserve fuel indicator (orange)
Comes on when approximately 4 litres of fuel are left.

Neutral warning lights (green)
It turns on when the gear is in "Neutral".

Turn indicator light (green)
Lights up when the turn indicators are activated.

Headlights (blue)
It turns on when the headlights are on.



Engine oil pressure warning lights (red)
Lights up when the oil pressure is insufficient.

⚠ **WARNING:** If the warning light comes on while riding, stop the motorcycle immediately. Check the oil level and if necessary have it restored by a MV Agusta authorized service centre (see §3.8.). If the warning light comes on even if the oil level is correct, do not resume riding and contact a MV Agusta authorized service centre.

Battery charge indicator (red)
Lights up when the alternator does not supply enough current to charge the battery.
If the indicator comes on while riding, contact a MV Agusta authorized service centre.

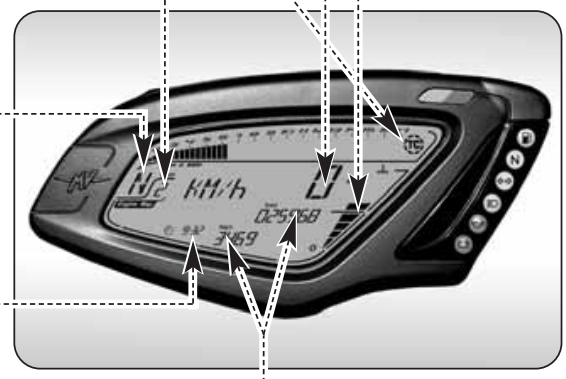
3.7.2. General display

Traction control level display
Indicates the traction control level currently selected.

Control unit mapping display.
Indicates the number of the control unit mapping currently selected.

Gear display
It displays the currently engaged gear. “N” stands for “neutral”.

Clock
Indicates the current time.



“TOTAL” odometer:
It displays the total distance covered; from 0 to 999999 (Km or miles)

Trip counter 1, “TRIP 1”
It displays the length of a trip; from 0 to 999.9 (Km or miles)

Trip counter 2, “TRIP 2”
It displays the length of a trip; from 0 to 999.9 (Km or miles)

Chronometer
It displays the time measured by the chronometer

Speedometer
It displays the speed of the motorbike. It can be given in kilometres per hour (Km/h) or in miles per hour (Mph). The full scale measures 300Km/h (186 Mph).

Thermometer
It displays the temperature of the coolant by turning on a variable number of segments on a graduated scale. When the temperature falls outside the normal operating range, it may display one of the following information:
- the display shows just one blinking segment; it means that the temperature is low;
- all segments are on, while the upper segment is blinking; it means that the temperature is high.

Danger - Notice: if the temperature is high, stop the motorbike and check the coolant level. If it needs to be filled up, contact a MV Agusta licensed service centre (see § 3.8). If the warning light turns on even if the level is adequate, stop driving and contact a MV Agusta licensed service centre.

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3.8. Table of lubricants and fluids

Description	*Recommended product*	*Specifications*
Engine lubrication oil	eni i-Ride moto2 5W-40 (*)	SAE 5W/40 - API SL
Coolant	AGIP ECO - PERMANENT	Ethylene glycol diluted with 50 percent distilled water
Brake and clutch fluid	Agip Brake 4	DOT4
Drive chain lubrication oil	D.I.D. CHAIN LUBE	–

* : MV Agusta suggests to refer directly to its authorized dealers in order to purchase the recommended product. The eni i-Ride moto2 5W-40 engine oil has been expressly produced for the Brutale motorcycle engine. MV Agusta suggests to use a fully synthetic engine oil having characteristics equal or better than the ones prescribed in the following standards:

– Consistent with: API SL
– Consistent with: ACEA A3
– Consistent with: JASO MA, MA2
– SAE Rating: SAE 5W-40

NOTE
The above standard denominations must be written, alone or together, on the engine oil container label.

4.1. Using the motorcycle

This section provides the basic information needed to correctly operate the motorcycle.

WARNING
Your motorcycle Brutale 800 shows high power and performance characteristics; therefore, its use requires an adequate level of knowledge of the vehicle. When you use this motorcycle for the first time, it is essential to adopt a cautious attitude. An aggressive or reckless riding attitude can lead to accidents, compromising the driver's and other people's safety.

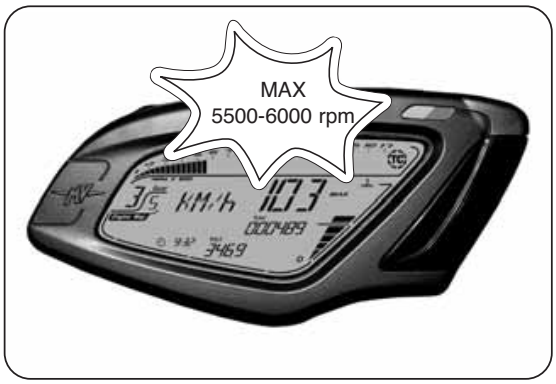
WARNING
THE RESTRICTIONS RELATED TO THE ALLOWED USE OF THE VEHICLE ARE DESCRIBED IN THE SECTION "SAFETY INFORMATIONS".

4.2 Running-in

CAUTION
Failure to observe the indications provided below can reduce performance and shorten the life of the motorcycle.

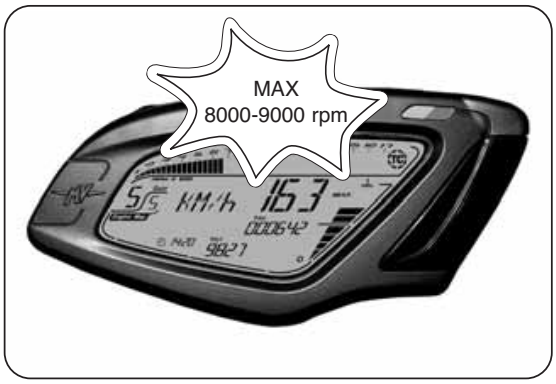
Running-in is generally considered to apply only to the engine. In fact, it should be regarded as an essential phase for other important parts such as the tyres, the brakes and the drive chain. During the very first miles, adopt a relaxed riding style.

❑ 0 to 500 km (0 to 300 mi) (A)
Frequently change the engine speed. If possible, prefer hilly routes with gentle slopes and many bends. Avoid long straight stretches.

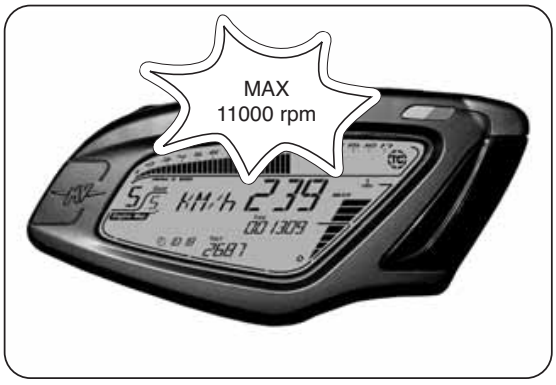


WARNING
New tyres must undergo a proper running-in period to reach their complete efficiency. Avoid abrupt acceleration, turning and braking during the first 100 km. Failure to observe these prescriptions can lead to the sliding of the wheels and the loss of control of the vehicle with subsequent risk of accidents.

❑ **500 to 1000 km (300 to 600 mi)**
Avoid lugging or overspeeding the engine, and vary your speed frequently.



❑ **1000 to 2500 km (600 to 1600 mi)**
Higher engine performance can be demanded, but it is advisable not to exceed the engine speed shown in the figure.



4.3. Starting the engine

WARNING: Starting the engine in a closed place can be dangerous. Exhaust emissions contain carbon monoxide, a colourless and odourless gas that can lead to serious harm or even death when inhaled.
Only start the engine outdoor, in the open air.

▶ As you turn the ignition switch to the ON position, the instruments and the warning lights will go through the self-diagnostic cycle; during this phase, make sure that all the warning lights on the dashboard come on.

▶ The start/stop system will let the motorbike turn on if one of the following conditions is met:
– The gear is in neutral.
– The gear is engaged with the clutch lever up and the side stand up.

NOTE: When less than 1000 km are left to the execution of the next scheduled maintenance intervention, the notice screenshot shown here on the side appears on the display.

▶ If the self-diagnostic cycle detects a fault in the vehicle, the display shows the warning alert shown in the picture. In particular, this message highlights the vehicle part or device on which the fault has been detected.

▶ Press “OK” button to access to “RUN” mode.

⚠ **WARNING**
If a fault is deteced on the vehicle, do not start engine and contact an authorized MV Agusta centre.

❑ **Engine start procedure**

▶ Press the start button without turning the throttle twist grip.

▶ As soon as the engine starts, release the button.

CAUTION

• Do not press the start button for longer than 5 consecutive seconds, in order to avoid damage to the electrical equipment.

• Avoid warming up the engine while the vehicle is stationary. The subsequent engine overheating can cause damage to the internal parts of the engine. It is advisable to bring the engine to the working temperature by riding at reduced speed.

• To ensure the maximum life of the engine, never speed up at full throttle when the engine is cold.

4.4. Selecting and setting the display functions

Some of the main measurements of the instruments may be changed.
The available options include:

- Select an operating mode:

  “RUN” (Odometer)
  “SPEED LIMITER”
  “TC” (Traction control)
  “CHRONO” (Chronometer)
  “QUICK SHIFT” *
  “CLOCK” (Clock)

- Reset the trip counter:

  Trip counter 1 “TRIP 1”
  Trip counter 2 “TRIP 2”

- Turn on the chronometer
- Clock settings
- Control unit mapping selection

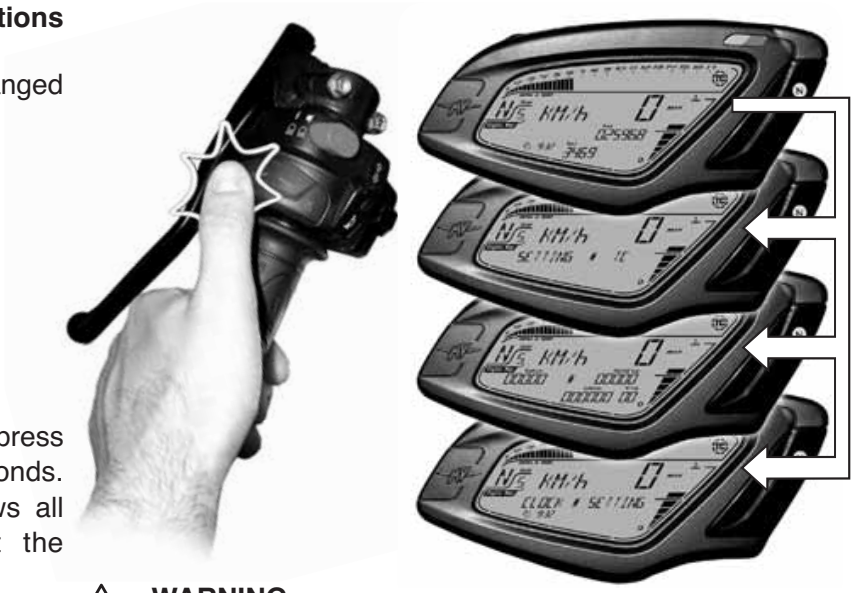
(*): This function is present only on certain models; available in aftermarket on all models

4.4.1. Selecting the display functions

The following settings may be changed on the display:

- “RUN” (Odometer)
- “SPEED LIMITER”
- “TC” (Traction control)
- “CHRONO” (Chronometer)
- “QUICK SHIFT” *
- “CLOCK” (Clock)

To display the operating modes, press “SET” for less than three seconds. When pressed, the display shows all modes in a sequence. Select the desired mode.



(*): This function is present only on certain models; available in aftermarket on all models

WARNING
The operation must be performed while the engine is not running, the gears are in neutral, the motorcycle is stationary, and with the feet on the ground. Do not set the display functions while riding, except where otherwise indicated.

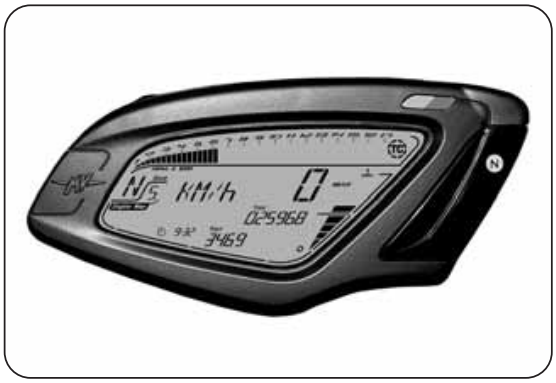
❑ “RUN” mode

In addition to the speedometer, the display shows the following functions (see §4.4.2.):

- Total odometer “TOTAL”
- Trip counter 1 “TRIP 1”

As an alternative:

- Total odometer “TOTAL”
- Trip counter 2 “TRIP 2”



❑ “SPEED LIMITER” mode

This mode adjusts the maximum value of the vehicle speed to your driving requirements (see §4.4.3.).

❑ **“TC” Mode**

This Mode adjusts the engine traction control level to your driving requirements (see §4.4.4.).

❑ **“CHRONO” Mode**

This mode turns on the Chronometer and saves the recorded information (see §4.4.5.).
The following is displayed:

- Chronometer Current lap “CURRENT LAP”
- Chronometer Fastest lap “BEST LAP”
- Chronometer Last lap “LAST LAP”
- Rev counter Total laps covered “N° LAP”

❑ “QUICK SHIFT” mode *

This mode allows to turn off or on the “quick shift” function of the gear change (see §4.4.6.).

(*): This function is present only on certain models; available in aftermarket on all models

❑ “CLOCK” Mode

The present function enables to change the time (hours and minutes) reported on the dashboard (see §4.4.7.).

4.4.2. Trip reset

To reset “TRIP 1” and “TRIP 2”, proceed as follows.

WARNING
The display modes may be changed or set when the engine is off, the gear in neutral, the motorbike stationary with your feet on the ground. The display may not be changed while driving.

▶ Access the “RUN” mode; the total speedometer ("TOTAL”) and partial speedometer 1 (“TRIP 1”) will appear on the display.

▶ By pressing the “OK” key for more than three seconds, the “TRIP 1” value will be reset to zero.

▶ Press the “OK” key for less than three seconds until the partial speedometer 2 function (“TRIP 2”) appears on the display.

▶ By pressing the “OK” key for more than three seconds, the “TRIP 2” value will be reset to zero.

4.4.3. “SPEED LIMITER” mode

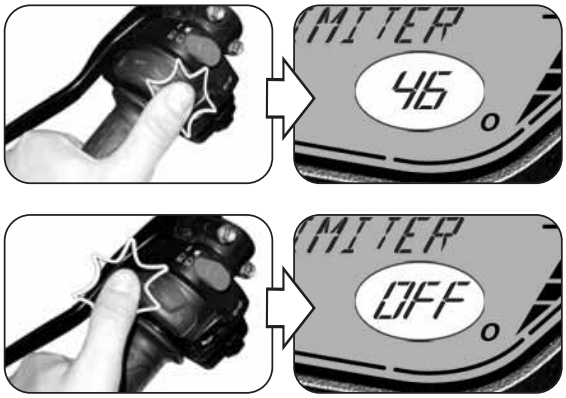
When starting the engine, the “SPEED LIMITER” function is disabled. In order to activate it, it is necessary to perform the following operations:

▶ Press “SET” in order to access to “SPEED LIMITER” mode. The maximum speed value shown on the display (equal to the current speed of the vehicle) starts blinking.

NOTE: The maximum speed may be changed or set even during the use of the vehicle.

▶ Press “SET” for less than three seconds: the maximum speed value is decreased of **2 km/h** with reference to the one shown on the display. On the other hand, if you press “OK” for less than three seconds, the maximum speed value is increased of **2 km/h** with reference to the one shown on the display.

▶ Press “OK” for over three seconds to confirm the selected maximum speed value. The displayed digit stops blinking and the display returns to “RUN” mode.
▶ On the other hand, if you press “SET” for over three seconds, the “SPEED LIMITER” function is disabled. The display shows the “OFF” caption. After three seconds, the display returns to “RUN” mode.



▶ If the “SPEED LIMITER” function has been enabled, when riding the vehicle the speed value shown on the odometer starts blinking when it reaches the set value of the maximum speed.

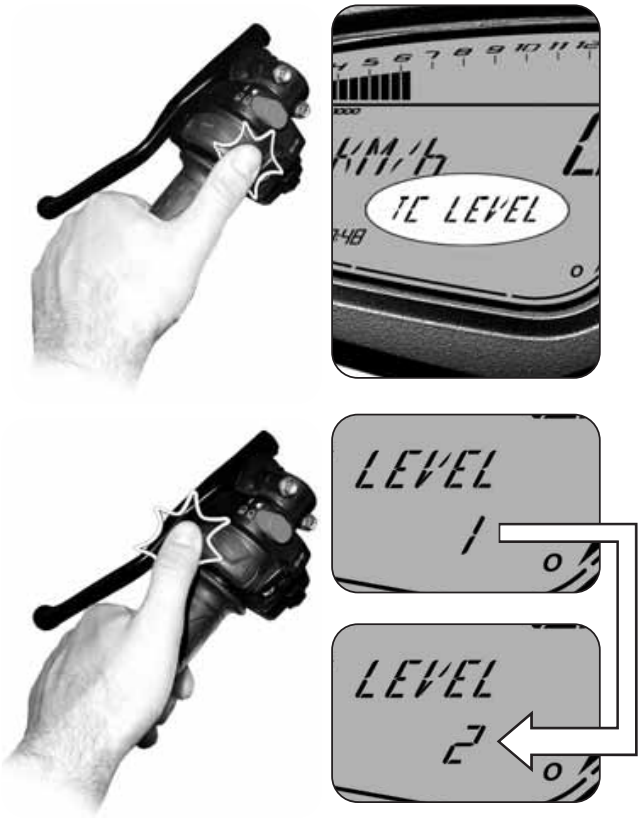
4.4.4. “TC” mode

▶ Press “SET” in order to access to “TC” mode, then press “OK” for less than three seconds until “TC LEVEL” appears. The current traction control level is the same as the one shown on the display.

NOTE
The traction control level may be changed or set even during the use of the vehicle.

▶ Press “OK” for less than three seconds: the traction control level rises up to the next value. On the other hand, by pressing “SET” for less than three seconds, the traction control level decreases to the lower value. Such value may range between **0** and **8**.

▶ Press “SET” for over three seconds to confirm the selected traction control level.



4.4.5. Chronometer

❑ **Lap time recording**

▶ Turn on the chronometer (“CHRONO” mode) to record the time taken to cover a lap.

▶ Press the headlight button to start recording the time. The colon that separates the minutes from the seconds and from the tenths of a second will start blinking. Now, the instrument is recording the time.

NOTE: When the “CHRONO” mode is activated, the first pressing of the headlight button automatically enables the “TC” function. From this moment on, it is possible to immediately change the traction control level by properly operate the “SET” and “OK” buttons (see §4.4.4.).

▶ Press the headlight button again to record the time taken to cover the 1st lap. At the same time, the instrument starts recording the time taken to cover the second lap.

The time measurement for the first lap is stored in the memory and is visualised on the display for ten seconds, after which the time measurement for the following lap appears.

▶ If using the chronometer again, every time you press the headlight button, it records a time. The instrument can record up to 100 consecutive times.

When the time for the lap which has just concluded is displayed, the symbol “**+**” or “**-**” appears if the time recorded is respectively higher or lower than the time measured during the previous lap.

❑ Data display

Once all times have been recorded, they may be displayed.

▶ Access the “CHRONO” mode; the time of the fastest lap (“BEST LAP”) and the time of the last lap (“LAST LAP”) appears on the display.

WARNING
The display modes may be changed or set when the engine is off, the gear must be in neutral, the motorbike must be stationary with your feet on the ground. Do not change the display while driving.

▶ Press “OK” for less than three seconds until “LAPS VIEW” appears.

▶ By repeatedly pressing the key of the flashing high beam headlight, all the times previously acquired starting from the last lap memorised can be displayed in sequence.

▶ Once all the data have been displayed, press the “SET” key to return to the “LAPS VIEW” mode and then to the following mode.

❑ **How to delete data**

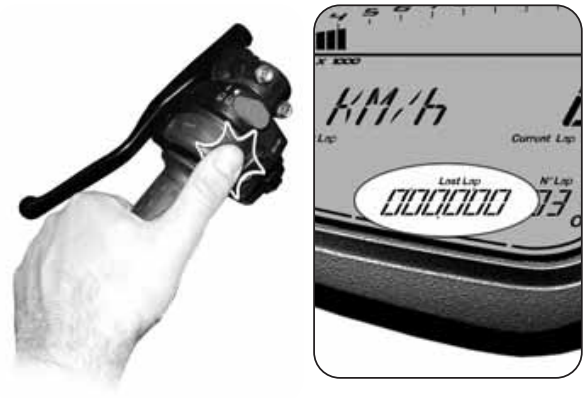
To delete the saved data, proceed as follows:

⚠ **WARNING**
The display modes may be changed or set when the engine is off, the gear in neutral, the motorbike stationary with your feet on the ground. Do not change the display while driving.

▶ *Resetting of individual time recordings:* Access the "CHRONO" mode and press the "SET" key for less than three seconds until the words "SINGLE LAP RESET" appear on the display.

▶ Press the "OK" key for less than three seconds; the value of the last lap time memorised will start flashing.

▶ Now, press “OK” for over three seconds to delete the value. Otherwise, press “SET” for less than three seconds to stop the deletion procedure.



▶ Subsequently, by pressing the flashing high beam headlight key followed by the “OK” key for more than three seconds, all the previously acquired times can be cancelled.

▶ Once all the data have been cancelled, press the “SET” key to return to the “SINGLE LAP RESET” mode and then to the following mode.

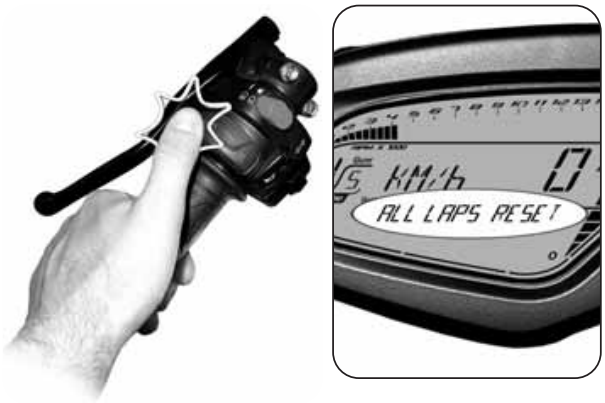
▶ *Resetting of best lap time:* Access the “CHRONO” mode and press the “SET” key for less than three seconds until the words “BEST LAP RESET” appear on the display.

▶ Press the “OK” key for less than three seconds; the value of the fastest last lap time memorised will start flashing.

▶ Now, press “OK” for over three seconds to delete the value. Otherwise, press “SET” for less than three seconds to stop the deletion procedure.

▶ Once all the data have been cancelled, press the “SET” key to exit the “BEST LAP RESET” mode and then pass to the following mode.

▶ *Resetting of all lap times recorded:* Access the “CHRONO” mode and press the “SET” key for less than three seconds until the words “ALL LAPS RESET” appear on the display.”.



▶ Press the “OK” key for less than three seconds; the display will ask you to confirm cancellation of all the data present in the memory.

▶ By pressing the “OK” key for more than three seconds, all the previously acquired times will be cancelled. By pressing the “SET” key for less than three seconds, the cancellation procedure will be interrupted.

▶ Once all the data have been cancelled, press the “SET” key to exit the “ALL LAPS RESET” mode and to return to the “CHRONO” mode.

4.4.6. “QUICK SHIFT” mode *

▶ Press “SET” in order to access to “QUICK SHIFT” mode. The display shows the current activation state of the “quick shift” function of the gear change.

WARNING
The display modes may be changed or set when the engine is off, the gear in neutral, the motorbike stationary with your feet on the ground. Do not change the display while driving.

▶ Press the "OK" button for less than three seconds; the activation caption of the “quick shift” function begins to flash.
▶ By pressing the "OK" button for less than three seconds, the caption toggles from “OFF” to “ON” and inversely.
▶ Press “SET” to confirm the selected “quick shift” activation state.

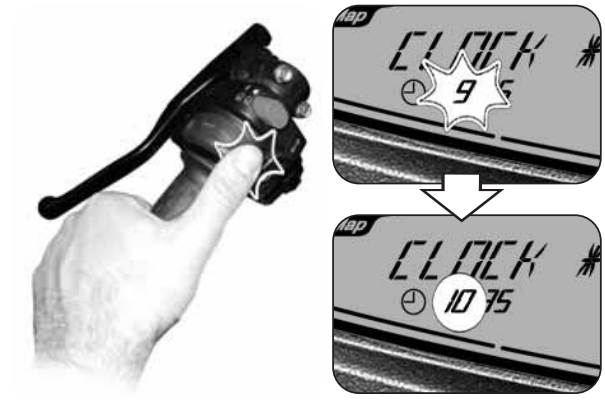
(*): This function is present only on certain models; available in aftermarket on all models

4.4.7. Clock settings

▶ To carry out clock settings, press the "SET" button until viewing the "CLOCK SETTING" caption.

WARNING
The display modes may be changed or set when the engine is off, the gear in neutral, the motorbike stationary with your feet on the ground. Do not change the display while driving.

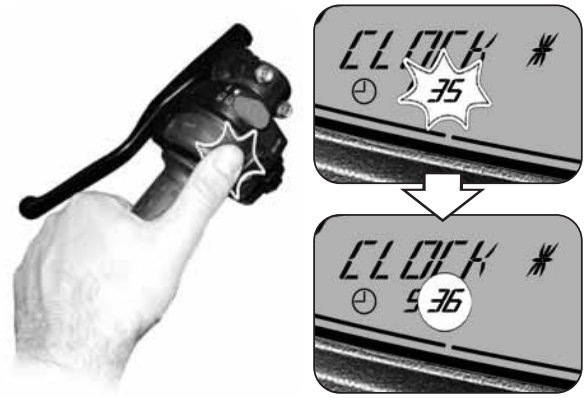
▶ Press the "OK" button for less than three seconds; the hour digit begins to flash.
▶ By pressing the "OK" button again for less than three seconds, the hour digit is increased by going to the following numeric value.
▶ Press the "OK" button for over three seconds; the selected hour digit is confirmed. If instead one presses the "SET" button for less than three seconds the setting procedure is interrupted.



▶ After having carried out the hour digit setting, the dashboard automatically switches to the minute digit setting. The minute digit begins to flash.

▶ By pressing the "OK" button for less than three seconds, the minute digit is increased by going to the following numeric value.

▶ Press the "OK" button for over three seconds; the selected minute digit is confirmed and the dashboard returns to "CLOCK" mode. If instead one presses the "SET" button for less than three seconds the setting procedure is interrupted.



4.4.8. How to select the mapping of the control unit

On the Brutale 800 model is it possible to select different control unit mappings which allow to obtain variable power and performance characteristics based on the type of vehicle use.

NOTE
The mapping selection may be performed even during the use of the vehicle.

The mapping of the control unit can be selected by pressing the start button when the engine is switched on; this way the mapping switches to the following setting value. The corresponding mapping characteristics are listed in the following table.

Mapping	**N**	**R**	**S**	**C**
Mode	Normal	Rain	Sport	Customised

❑ **Setting of "Custom" mapping**

▶ Press the start button when the engine is switched on until selecting the mapping "**C**" of the control unit ("Custom" mapping).

⚠ **WARNING**
The "Custom" mapping setting operations must be performed when the the gear is in neutral and the motorbike stationary with your feet on the ground. Do not change the display while driving.

▶ Press "SET" until "SETTING C MAP" appears.

In order to adjust the "Custom" mapping parameters to your driving requirements, perform the following operations.

▶ *Throttle control sensitivity:* Press "OK" for less than three seconds until "GAS SENSITIVITY" appears.

▶ Press “SET” for less than three seconds. The display shows the current setting for throttle control sensitivity.

▶ Press “OK” for less than three seconds; the displayed setting will start flashing.
▶ By repeatedly pressing “OK” for less than three seconds, the following settings can be displayed in sequence:

- “NORMAL”
- “RAIN”
- “SPORT”

▶ Press “OK” for more than three seconds; the new setting will be confirmed. The displayed caption stops flashing and after a few seconds the display returns to “GAS SENSITIVITY” mode. It is now possible to proceed with the setting of the following parameter.

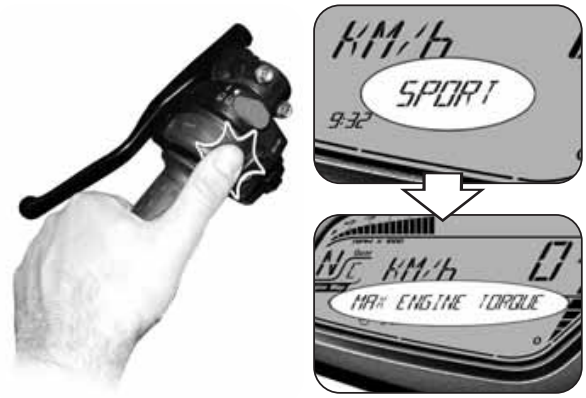
▶ *Maximum engine torque:* Press “OK” for less than three seconds until “MAX ENGINE TORQUE” appears.

▶ Press “SET” for less than three seconds. The display shows the current setting for maximum engine torque.

▶ Press “OK” for less than three seconds; the displayed setting will start flashing.
▶ By repeatedly pressing “OK” for less than three seconds, the following settings can be displayed in sequence:

- “RAIN”
- “SPORT”

▶ Press “OK” for more than three seconds; the new setting will be confirmed. The displayed caption stops flashing and after a few seconds the display returns to “MAX ENGINE TORQUE” mode.



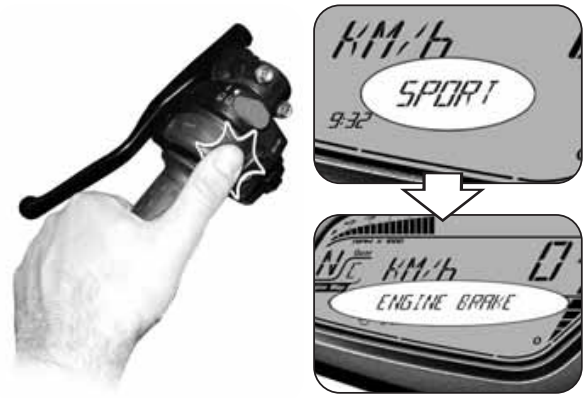
▶ *Engine brake:* Press “OK” for less than three seconds until “ENGINE BRAKE” appears.

▶ Press “SET” for less than three seconds. The display shows the current setting for engine brake.

▶ Press “OK” for less than three seconds; the displayed setting will start flashing.
▶ By repeatedly pressing “OK” for less than three seconds, the following settings can be displayed in sequence:

- “NORMAL”
- “SPORT”

▶ Press “OK” for more than three seconds; the new setting will be confirmed. The displayed caption stops flashing and after a few seconds the display returns to “ENGINE BRAKE” mode.



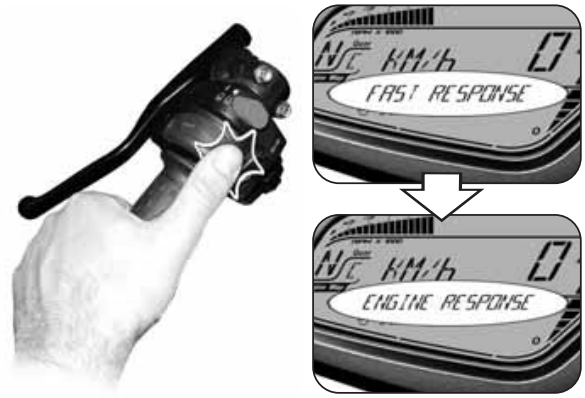
▶ *Engine response:* Press “OK” for less than three seconds until “ENGINE RESPONSE” appears.

▶ Press “SET” for less than three seconds. The display shows the current setting for engine response.

▶ Press “OK” for less than three seconds; the displayed setting will start flashing.
▶ By repeatedly pressing “OK” for less than three seconds, the following settings can be displayed in sequence:

- “SLOW RESPONSE”
- “FAST RESPONSE”

▶ Press “OK” for more than three seconds; the new setting will be confirmed. The displayed caption stops flashing and after a few seconds the display returns to “ENGINE RESPONSE” mode.



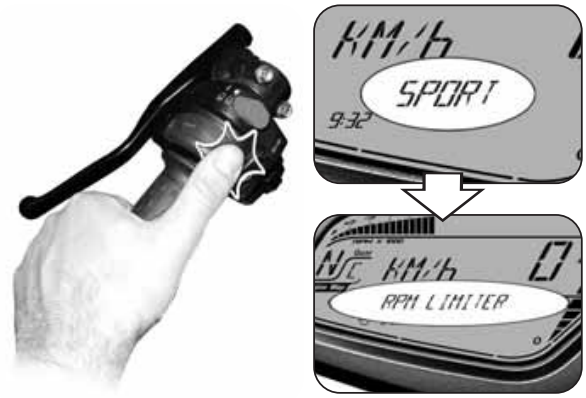
▶ *Engine RPM limiter:* Press “OK” for less than three seconds until “RPM LIMITER” appears.

▶ Press “SET” for less than three seconds. The display shows the current setting for engine RPM limiter.

▶ Press “OK” for less than three seconds; the displayed setting will start flashing.
▶ By repeatedly pressing “OK” for less than three seconds, the following settings can be displayed in sequence:

- “NORMAL”
- “SPORT”

▶ Press “OK” for more than three seconds; the new setting will be confirmed. The displayed caption stops flashing and after a few seconds the display returns to “RPM LIMITER” mode.



▶ Press “OK” for less than three seconds until the display switches to the “RUN” mode. The setting of the “Custom” mapping is completed.

4.4.9. Warning/malfunction alerts

The dashboard may highlight the presence of a fault or a malfunction during different using conditions of the motorcycle.

▶ *Engine start:* As you turn the ignition switch to the ON position, the instruments and the warning lights will go through the self-diagnostic cycle. If the self-diagnostic cycle detects a fault in the vehicle, the display shows the warning alert shown in the picture. In particular, this message highlights the vehicle part or device on which the fault has been detected.

▶ Press “OK” button to access to “RUN” mode. The direction indicator emergency lights begin to flash.

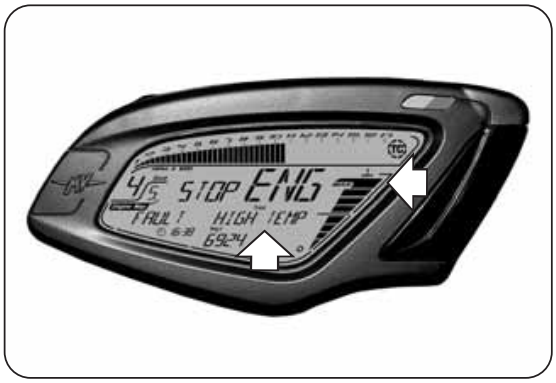
⚠ **WARNING**
If a fault is detected on the vehicle when the engine is off, do not start engine and contact an authorized MV Agusta centre.

▶ *Fault during vehicle riding:* If a fault is detected during riding, the lower portion of the display shows the warning alert shown in the picture. The direction indicator emergency lights begin to flash.

WARNING
If a fault is detected during riding, stop the vehicle and contact an authorized MV Agusta centre.

▶ After the vehicle is stopped, the display shows the warning message highlighting the vehicle part or device on which the fault has been detected.

▶ *High coolant temperature:* If a high value of the coolant temperature is detected, the display shows the warning alert shown in the picture. This message may appear during every using condition of the vehicle.



WARNING
If the coolant temperature is high, stop the motorbike and check the coolant level. If it needs to be filled up, contact a MV Agusta licensed service centre (see § 3.8). If the warning alert appears even if the level is adequate, stop driving and contact a MV Agusta licensed service centre

4.5. Refuelling

WARNING
Petrol and its fumes are highly toxic and flammable. Avoid contact and inhalation.
When refuelling, switch off the engine, avoid smoking, and keep away from flames, sparks and heat sources. Perform refuelling in the open air or in a well ventilated area.

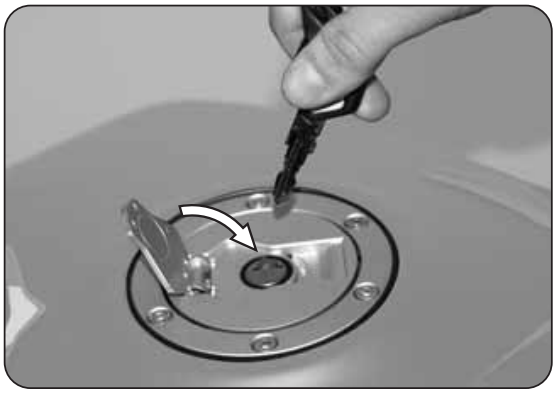
Cautela - Only use unleaded alcohol-free fuel, with a R.O.N. octane rating of 95 or higher. The green dot on the lower side of the tank cap and the label on the fuel tank serve as reminders of this.

- Lift the dust cover.
- Insert the key into the lock and rotate it clockwise.

▶ Lift the tank cap and operate the refuelling.

WARNING
Overfilling the tank may cause the fuel to overflow as a result of the expansion due to the heat from the engine or to exposure to sunlight. Fuel spills can catch fire. The level of the fuel in the tank must never be higher than the base of the filler.

▶ After refuelling, press down the tank cap while rotating the key clockwise to facilitate the locking. Then release the key and remove it.



CAUTION
Immediately wipe the overflown fuel with a clean cloth, to avoid damage to the painted or plastic surfaces.

WARNING
Verify that the tank filler cap is correctly closed before using the motorcycle.

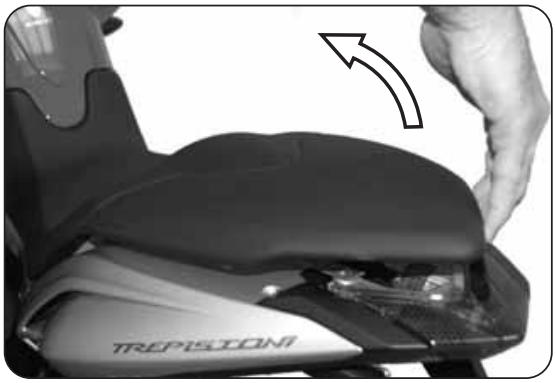
4.6. Glove compartment

▶ Insert the key into the lock.

▶ Rotate the key anticlockwise while slightly pushing the saddle. Lift the saddle and remove it as shown in the picture.

In order to reassemble the above mentioned part, you must perform the following operations:

- Rotate the key into the lock
- Press down the seat
- Release the key
- Press down the seat once more, so to make sure of its firm coupling to the frame.



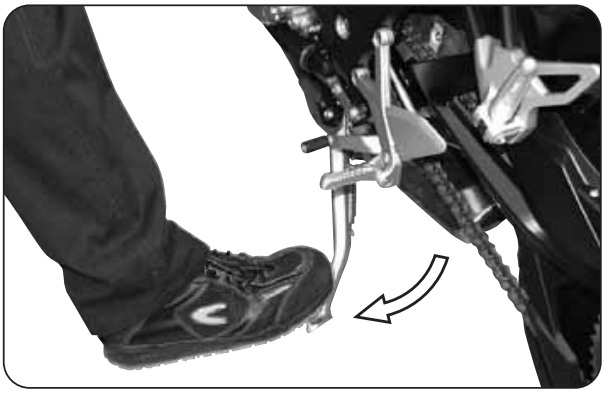
WARNING
Every time you remove and refit the seat and every time the vehicle is used, make sure that the above mentioned part is correctly placed and that it is firmly secured to the motorcycle framework.

4.7. Parking the motorcycle

❑ **Using the sidestand**

WARNING
Park the motorcycle safely on solid ground. On slopes, engage the first gear and park the vehicle so that the front wheel faces uphill. Remember to put the gear lever in the neutral position before restarting the engine. Never leave the vehicle unattended while the engine key is in the dashboard.

WARNING
Do not sit on the vehicle when it is parked on the sidestand, as your full weight would rest on the vehicle's only support. Before riding off, ensure that the sidestand warning light on the instrument panel goes out. In any case, make sure that the stand has been retracted. If you notice a malfunction of the side stand switch, have it controlled by your MV Agusta dealer before using the motorcycle.

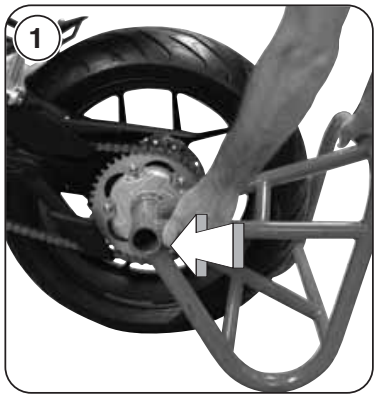


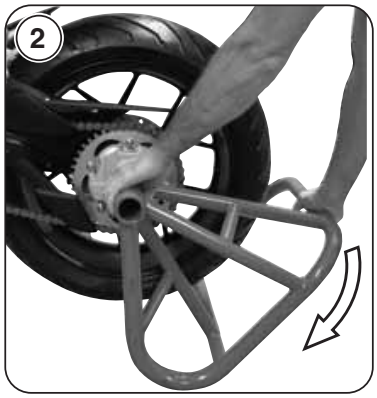
▶ Using your foot, lower the sidestand as far as it will go, and then slowly tip the motorcycle toward you to bring the stand supporting foot into contact with the ground's surface.

❑ Using the rear stand

Insert the stand pin into the rear wheel axle hole on the left side of the motorcycle. Rest the stand on the ground and, pressing down on the stand, lift the vehicle until it reaches a stable condition.

CAUTION
This operation is best carried out with two people.



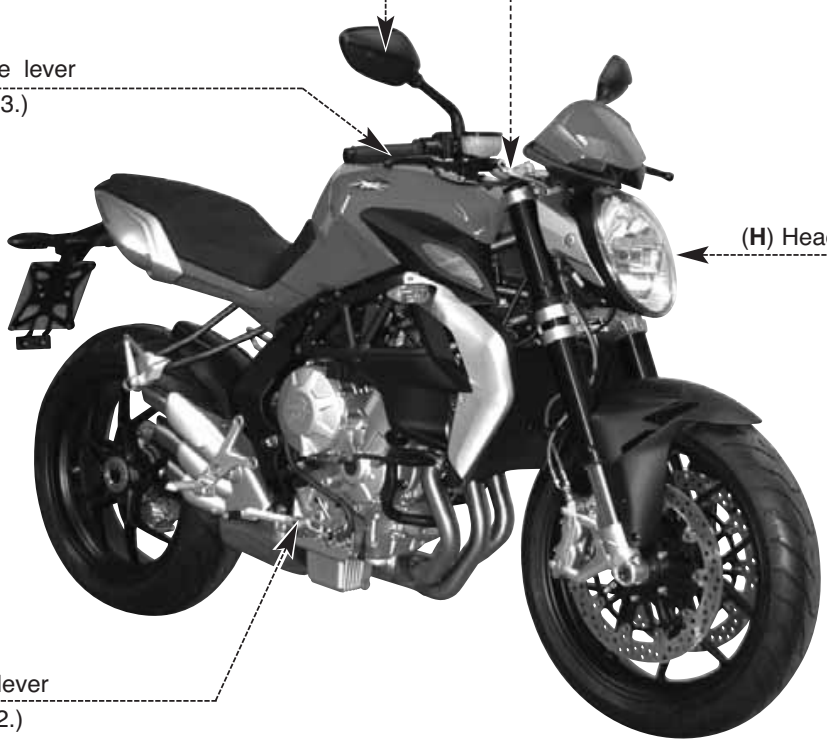


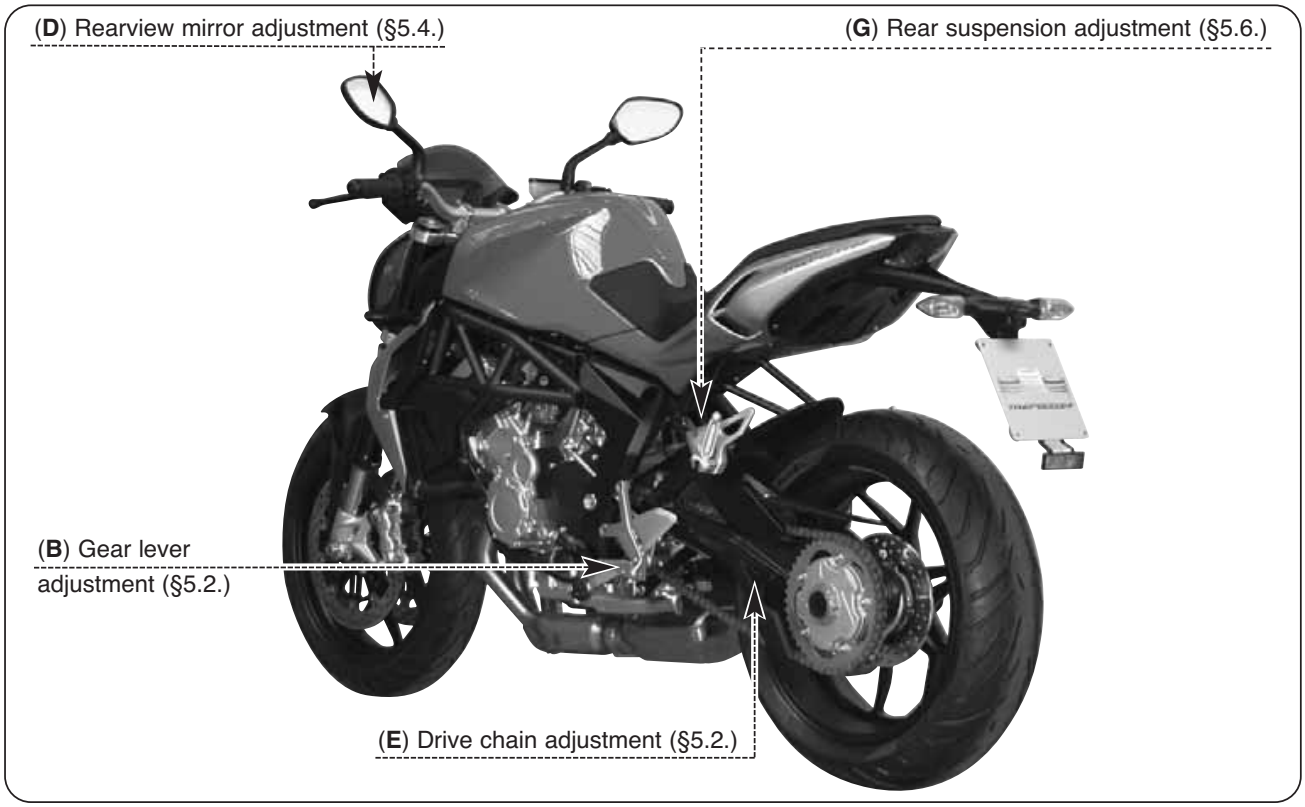
5.1. List of adjustments

There are many adjustments that can significantly improve the ergonomics, geometry and safety of the motorcycle.

However, since an incorrect adjustment of particularly important components can lead to dangerous situations, some of the above adjustments must be performed only by authorized MV Agusta Service Centers.

⚠ **WARNING**
All adjustments must be performed when the vehicle is stationary


(D) Rearview mirror adjustment (§5.4.)
(F) Front suspension adjustment (§5.5.)
(A) Front brake lever adjustment (§5.3.)
(H) Headlight adjustment (§5.7.)
(C) Rear brake lever adjustment (§5.2.)

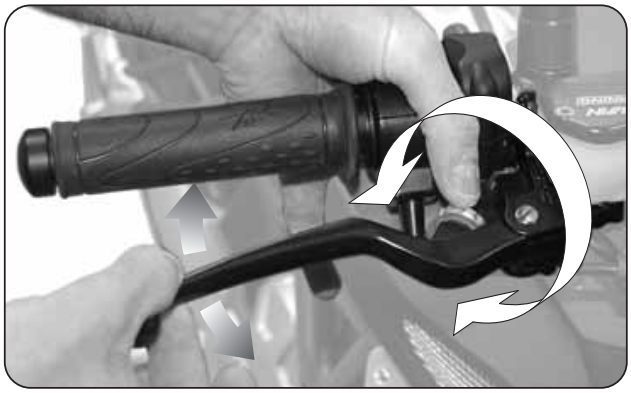

(**D**) Rearview mirror adjustment (§5.4.)
(**G**) Rear suspension adjustment (§5.6.)
(**B**) Gear lever adjustment (§5.2.)
(**E**) Drive chain adjustment (§5.2.)

5.2. Table of adjustments

	**A - Front brake lever adjustment:** Optimizes the grip to suit the rider's needs (§5.3).
	**B - Gear lever adjustment:** Optimizes the position of the lever to suit the rider's needs.
	**C - Rear brake lever adjustment:** Optimizes the position of the lever to suit the rider's needs.
	**D - Rearview mirror adjustment:** Optimizes the orientation of the rearview mirrors (§5.4). ⚠ **WARNING: Do not operate the screw fixing the rearview mirror to the handlebar. If this screw needs to be tightened, contact your MV Agusta dealer.**
	**E - Drive chain adjustment:** To ensure safe and effective transmission of power.
	**F - Front suspension adjustment:** The following can be adjusted to adapt the response of the suspension to the rider's preference: - spring preload (§ 5.5.1.) - rebound damper (§ 5.5.2.) - compression damper (§ 5.5.3.)
	**G - Rear suspension adjustment:** The following can be adjusted to adapt the response of the suspension to the rider's preference: - geometry height - spring preload - rebound damper (§5.6.1.) - compression damper (§5.6.2.)
	**H - Headlight adjustment:** To adjust the range of the light beam to the geometry of the motorcycle (§5.7).

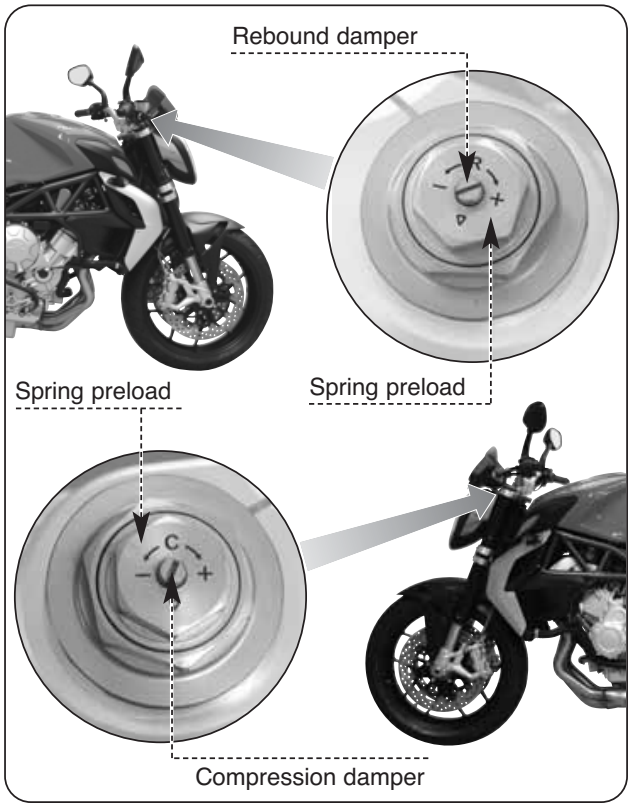
5.3. Adjusting the front brake lever

Rotate the lever adjust to change its position. Clockwise: the lever moves closer to the handle. Counter-clockwise: the lever moves away from the handle.



5.4. Adjusting the rearview mirrors

Rotate the rearview mirror body to adjust its position in the four directions. Perform the adjustment on both rearview mirrors. It is recommended to sit on the vehicle in order to optimize the rearview mirrors adjustment.

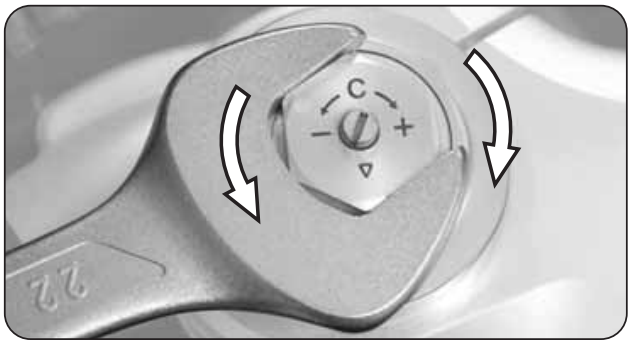


5.5. Adjusting the front suspension

NOTE: The adjustment of the suspensions must be preferably performed with the fuel tank full.

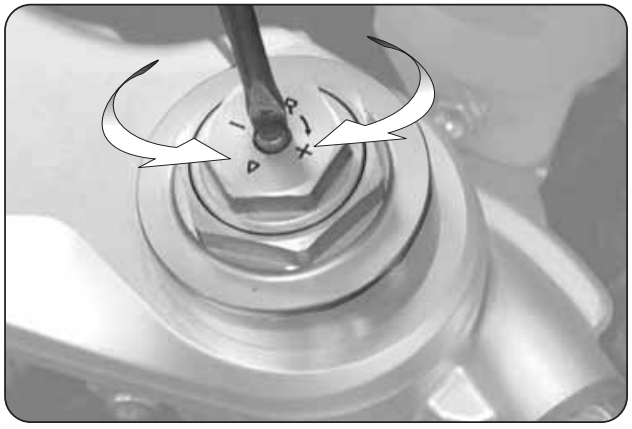
5.5.1. Spring preload (front suspension)

The adjustment is obtained from the reference position, which is found by fully turning the adjusting nut counterclockwise; from this position, turn the screw clockwise until you reach the standard position (see enclosed table). Rotate clockwise to increase the spring preload or counterclockwise to decrease it.



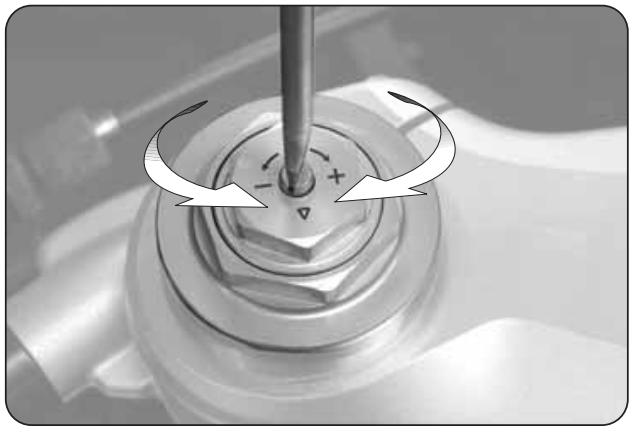
5.5.2. Rebound damper (front suspension)

The adjustment is obtained from the reference position, which is found by fully turning the screw clockwise and then counterclockwise until you reach the standard position (see enclosed table). Rotate clockwise to increase the damping action or counterclockwise to decrease it.



5.5.3. Compression damper (front suspension)

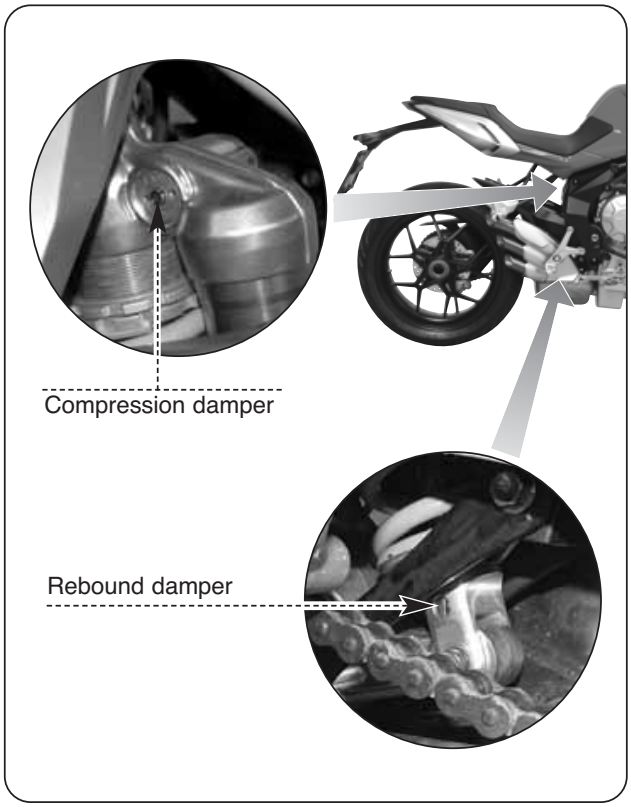
The adjustment is obtained from the reference position, which is found by fully turning the screw clockwise and then counterclockwise until you reach the standard position (see enclosed table). Rotate clockwise to increase the damping action or counterclockwise to decrease it.



5.6. Adjusting the rear suspension

WARNING
The rear shock absorber contains highly compressed gas. Do not try to open or disassemble it in any way.

NOTE: The adjustment of the suspensions must be preferably performed with the fuel tank full.



5.6.1. Rebound damper (rear suspension)

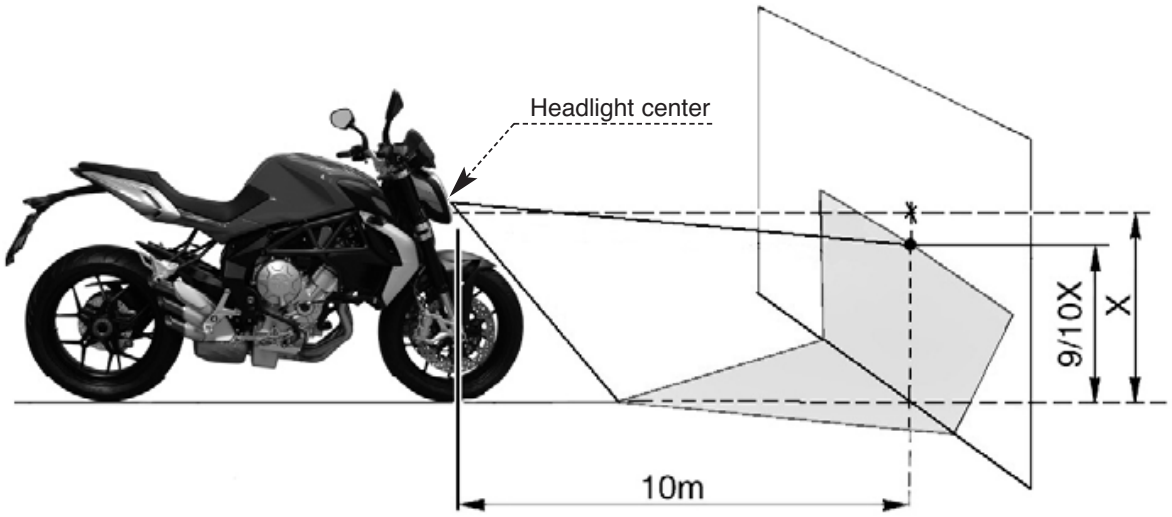
The adjustment is obtained from the reference position, which is found by fully turning the screw clockwise and then counterclockwise until you reach the standard position (see enclosed table). Rotate clockwise to increase the damping action or counterclockwise to decrease it.

5.6.2. Compression damper (rear suspension)

The adjustment is obtained from the reference position, which is found by fully turning the screw clockwise and then counterclockwise until you reach the standard position (see enclosed table). Rotate clockwise to increase the damping action or counterclockwise to decrease it.

5.7. Headlight adjustment

Place the vehicle at a distance of 10 m from a vertical wall. Make sure that the motorcycle is placed on an even horizontal surface, and that the headlight's optical axis is perpendicular to the wall.
The vehicle must be held in an upright position. Measure the "X" distance between the headlight center and the ground surface, then trace a small cross on the wall at the same height.
When you turn the headlight on, the upper boundary line between the dark area and the lighted area must be at an height equal or lower than the 9/10 of the headlight center height (X).



The headlight adjustment can be performed by rotating the screw shown in the picture. Rotate clockwise to incline the headlight downwards, counterclockwise to incline it upwards.
It can be tilted up to an angle of ±4° from the standard position.

NOTES

Information

MV Agusta Motor S.p.A. is committed to a policy of constant improvement; therefore, you may find slight differences between the information provided in this document and the vehicle you purchased. MV Agusta motorcycles are exported in several countries, in which different rules and regulations (concerning both the Highway Code and the homologation procedures) are in force. Relying on your understanding, MV Agusta Motor S.p.A. deems it necessary to reserve the right to change its products and the related documentation at any time and without notice.

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Respect and defend natural environment

Everything we do affects the whole planet as well as its resources.
MV Agusta, in order to protect the interests of the community, awakens the Customers and the Technical Assistance operators to use the vehicle and dispose of its replaced parts respecting the laws in force concerning environmental pollution and waste disposal and recycling.

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MV AGUSTA

Manuel d'utilisation

Version Française